Addition, Subtraction, Multiplication and Division: Problem Sorter

Aim: Solve problems involving addition, subtraction, multiplication and division. I can decide which operation to use and explain why.	Success Criteria: I can decide whether a problem has one or two steps. I can decide if I need to use addition, subtraction, multiplication or division.	Resources: Lesson Pack Whiteboards and pens
	Key/New Words: Solve, total, more, minus, plus, decrease, increase, sum, difference between, total, altogether, calculate, method, spent, change, nearest multiple, doubling, halving, multiply, multiplication, lots of, groups of, divide, division, fraction, percentage.	Preparation: Operation Signs - 1 per class Differentiated Problem Sorter Activity Sheet - 1 per child Extra Challenge Activity Sheet - as required RUCSAC Prompt Cards - as required

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Prior Learning:
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It will be helpful if children have a secure understanding of place value, number bonds, multiplication facts and corresponding number facts.

Learning Sequence

	Head-to-Head: Select two children. On each of the slides from the Lesson Presentation, there is a question along with four possible answers. Each child only has one attempt to touch a correct answer on the board. The first child to select the correct answer wins. Repeat with different pairs of children.		
	How Do You Solve a Problem? Read through the slides from the Lesson Presentation, modelling using RUCSAC to help identify the operation/s that is/are required. Repeat with further examples if required.		
	Operations: Working with a partner, children use the 'RUC' in RUCSAC to identify whether the word problem requires addition, subtraction, multiplication or division. The children stand next to the appropriate Operation Sign to indicate their answer. Can the children select the key words in the word problems? Which operation did they choose?		
	Problem Sorter: Using the differentiated Problem Sorter Activity Sheets , children solve the word problems, identifying the operation/s needed to solve them. Remind children to use the 'RUC' from RUCSAC to help them during the task, providing RUCSAC Prompt Cards if required.		
	Answer one-step problems involving all four operations by deciding which operation to use to solve which calculation. Answer two-step problems involving all four operations by deciding which operations to use to solve which calculation. Answer two-step problems involving all four operations by deciding which operations to use to solve which calculation. An Extra Challenge Activity Sheet is provided as an extension activity if required.		
Nihole Class	All Sorted: Review children's learning. Show the questions and operations on the Lesson Presentation. Children indicate their understanding of which operations are most appropriate to use, and solve the problems on their whiteboards. Can children identify the operations required? Can children solve the problems using RUCSAC?		
Masterit Challengeit: Solveit:	Children work through the problems on these <u>Year 6 Calculation Addition and Subtraction Problems Maths Master</u> <u>Cards</u> . Children complete this fabulous <u>Banana Bob's Fruit and Veg Stall Activity Sheet</u> .	ry Challenge	

